

Amendments to the Claims

Kindly amend claims 7, 8 and 10.

Kindly add new claim 11.

1. (Previously presented) A polymer electrolyte, comprising: a vinylidene fluoride copolymer and a nonaqueous electrolytic solution, wherein the vinylidene fluoride copolymer comprises 80 to 97 wt. % of vinylidene fluoride monomer units and 3 to 20 wt. % of units of at least one monomer copolymerizable with vinylidene fluoride monomer and has an inherent viscosity of 1.7 to 7 dl/g.

2. (Previously presented) A polymer electrolyte, comprising: a vinylidene fluoride copolymer and a nonaqueous electrolytic solution, wherein the vinylidene fluoride copolymer comprises 80 to 97 wt. % of vinylidene fluoride monomer units and 3 to 20 wt. % of units of at least one monomer copolymerizable with vinylidene fluoride monomer and has an inherent viscosity of 1.5 to 10 dl/g, and wherein said at least one monomer copolymerizable with vinylidene fluoride comprises a mixture of hexafluoropropylene monomer and trifluorochloroethylene monomer.

3. (Previously presented) A polymer electrolyte according to Claim 1, wherein the vinylidene fluoride copolymer has been obtained by introducing the monomers simultaneously all at once into a polymerization vessel and then polymerizing the monomers.

4. (Original) A polymer according to Claim 1, wherein said vinylidene fluoride copolymer has an abnormal linkage content of at least 3% at vinylidene fluoride sites.

5. (Original) A polymer electrolyte according to Claim 1, which contains 50 - 85 wt. % of the nonaqueous electrolytic solution.

6. (Original) A polymer electrolyte according to Claim 1, wherein the vinylidene fluoride copolymer forming the polymer electrolyte is crosslinked.

7. (Currently amended) A polymer electrolyte according to Claim ~~4~~ 6, wherein the vinylidene fluoride copolymer is crosslinked in the presence of (1) a crosslinking agent selected from the group consisting of polyamines, polyols and polymerizable crosslinking agents having an unsaturated bond, and (2) a radical generating agent.

8. (Currently amended) A polymer electrolyte according to Claim ~~4~~ 6, wherein the vinylidene fluoride copolymer is crosslinked by irradiation with electron rays or gamma rays.

9. (Previously presented) A nonaqueous battery, comprising: a positive electrode comprising a positive electrode material capable of being doped with and liberating lithium, a negative electrode comprising either metallic lithium or a negative electrode material similarly capable of being doped with and liberating lithium, and a polymer electrolyte according to any of Claims 1-8 between the positive electrode and the negative electrode.

10. (Currently amended) A polymer electrolyte according to Claim 1, formed from a mixture of the vinylidene fluoride copolymer, the nonaqueous electrolytic solution and ~~an evaporatable~~ a solvent that can be evaporated, by evaporating the ~~evaporatable~~ solvent from the mixture.

11. (New) A polymer electrolyte according to Claim 1, wherein the vinylidene fluoride copolymer has an inherent viscosity of 1.8 to 7 dl/g.